

Notice of Allowability

Application No.

10/812,523

Examiner

Shawn Riley

Applicant(s)

ELFMAN, BRIAN

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 30 March 2004 filing.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☒ The drawings filed on 30 March 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

SHAWN RILEY
PRIMARY EXAMINER

DETAILED ACTION

1. The following is an examiner's statement of reasons for allowance: No prior art uncovered anticipates or renders obvious applicant(s) claimed self calibrating voltage regulation system including a second voltage reference, which has substantially less voltage stability than the first voltage reference; an error signal generator configured to be in communication with both the first voltage reference and a feedback voltage, the error signal generator being further configured to generate an error signal based thereon; and an error correction unit configured to be in communication with both the error signal and the second voltage reference, the error correction unit being further configured to generate a calibrated output voltage that has greater voltage stability the second voltage reference.
2. Further, no prior art uncovered anticipates or renders obvious applicant(s) claimed self-calibrating voltage regulation system including a second voltage reference including a TRZ that is turned on with a sufficiently high on-time duty cycle such that its voltage becomes out of calibration an error signal generator configured to be in communication with both the first voltage reference and a feedback voltage, the error signal generator being further configured to generate an error signal based thereon; and a summing amplifier configured to be in communication with both the error signal and the second voltage reference, the summing amplifier being further configured to generate a calibrated output voltage that has a greater voltage stability than the second voltage reference.

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3. Further, no prior art uncovered anticipates or renders obvious applicant(s) claimed self-calibrating voltage regulation system including an error signal generating means configured to be in communication with both the first voltage reference means and a feedback voltage; and an error correction means configured to be in communication with both the error signal generating means and the second voltage reference means, the error correction means being further configured to generate a calibrated output voltage that has a greater voltage stability than the second voltage reference means.

Further, no prior art uncovered anticipates or renders obvious applicant(s) claimed self-calibrating voltage regulation system including setting the duration of the sampling period to provide the first voltage reference substantially more voltage stability than a second voltage reference; generating an error signal based on the first voltage reference and a feedback voltage; and calibrating the output voltage based on the error signal and the second voltage reference, whereby the calibrated output voltage has a greater voltage stability than the second voltage reference.

Allowable Subject Matter

1. Claims 1-32 are allowable over the prior art of record.

Conclusion

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Any inquiry from other than the applicant/attorney of record concerning this communication or earlier communications from the Examiner should be directed to the Patent Electronic Business Center (EBC) at 1.866.217.9197. Any inquiry from a member of the press concerning this communication or earlier communications from the Examiner or the application should be directed to the Office of Public Affairs at 703.305.8341. Any inquiry from the applicant or an attorney of record concerning this communication or earlier communications from the Examiner should be directed to Examiner Riley whose telephone number is 571.272.2083. The Examiner can normally be reached Monday through Thursday from 7:30-6:00 p.m. Eastern Standard Time. The Examiner's Supervisor is Mike Sherry who can be reached at 571.272.2084. Any inquiry about a case's location, retrieval of a case, or receipt of an amendment into a case or information regarding sent correspondence to a case **should be directed to 2800's Customer Service Center** at 571.272.2815. Any papers to be sent by fax MUST BE sent to fax number 703.872.9306. Any inquiry of a general nature of this application should be **directed to the Group receptionist** whose telephone number is 571.272.2800. Status information of cases may be found at <http://pair-direct.uspto.gov> wherein unpublished application information is found through private PAIR and published application information is found through public PAIR. Further help on using the PAIR system is available at 1.866.217.9197 (Electronic Business Center).

June 05



Shawn Riley
Primary Examiner